A.N.A.R.T.S. News Bulletin 1333 for 30th January 2005.

Cols Column

Early Electrical Communication

Cooke and Wheatstone Continued.

In his early experimential years, Cooke, like many others at that time, was not too well informed regarding electrical theory. The one person he consulted on the subject and with whom he formed a long association with was Charles Wheatstone.

Cooke realised he must increase the sensitivity of his Telegraph and with the failure of his experiment with Wheatstones 4 miles of wire, carried out several experiments. In one of them he suspended a wire wound armature between the poles of a permanent magnet. When a current from the line was passed through the armatures coil, so magnetising it, there would be a deflection of the armature that could be seen by an observer. For some reason this idea was dropped and not used again, but it is interesting to note that in later years the same idea, now called a 'Balanced, or, moving armature' was used in loudspeakers and Telephone receivers.

Cooke was in his early experimental years careful not to record his work in writing. But later in letters to family members he does so, possibly to protect his work against rival claims. In one of these letters Cooke describes how he and Wheatstone had returned to the Deflected Needle system very similar to the one Cook had built in Germany.

At this point in time the Mechanical type of Telegraph was abandoned in favour of the needle type. Cooke says in the letter 'We used six wires, forming three metallic circuits, and influencing three needles. I worked out every possible permutation and practical combination of the signals given by the three needles, and I thus obtained twenty six signals'. This is very similar to the Code that Samuel Morse is reputed to have devised, except that the operator of such a system noted the deflections of the needles instead of listening to the clicks of a sounder.

Cooke and Wheatstone formed a legal partnership in May 1837, the details of a patent for their needle system was worked out at a later date. The patent was dated 12 June 1837 and is the first patent in the world to cover communication
by an electrical device.

A description of their patent next week.
73's Col VK2CTD.

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IPS Weekly Solar and Geophysical Report for 21/27th Jan

SUMMARY

Date	21	22	23	24	25	26	27	
10cm flux	114	102	9	95	94	89	87	
AFr index	30	23	12	5	2	0	(2 estimated)	
Aaus index	36	24	15	9	6	3	(3 estimated)	
T index	55	-6	19	34	52	39	43	

Solar flare activity was moderate on 21st with two M1 flares
and very low for the remainder of the period.

Geomagnetic activity observed for the Australian Region was quiet
to major storm on 21st unsettled to minor storm on 22nd quiet to
active on 23rd quiet to unsettled on 24/25th and quiet on 26/ 27th.

Southern Australian Ionospheric F2 critical frequencies were near
predicted on 21st and 25/27th depressed 30 to 20 percent on 22nd
depressed 15 percent to near predicted on 23rd.
no data was available for 24th.

Forecast for 28th Jan to 3rd Feb

Solar activity should be low.

Geomagnetic activity should be mostly quiet with active conditions
expected 29/30th due to a coronal hole wind stream. Isolated minor
storm periods are possible within this period.

Frequencies could be depressed 15 to 20 percent on 30th, otherwise
normal. No shortwave fadeouts are expected.

courtesy of the IPS Radio and Space Services

summary by Pat Leeper VK2JPA ANARTS Broadcast Officer

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VK2SG RTTY DX NOTES FOR WEEK ENDING 27 JAN

Our information this week came from GU0SUP I5FLN DJ3IW NG3K JH7IMX and
OH2AQ's DX Summit. Thank you all.

This weekend is the UK RTTY DX. Official rules at www.srars.org/ukdxc.pdf.

Bandpass

Friday 21
0300- 3607 XE1L
1056-21081 OD5/SP5LKN
1220-14084 UN8PIM
1409- 7036 HZ1IK
1521-10141 A71EM
1523- 7033 EY8DQ

Saturday 22
0107- 7087 KG4SB
0134- 3582 KG4SB
0826-14083 EA6BH
0934-14086 JT1CO
1027-14086 EA8KL

1156-14085 XU7ABN
1200-14090 Z31MM
1203-14088 5B4AGN
1207-14084 ZL2AMI
1217- 7038 YB0DPO
1223- 7035 DU7/G4DUM
1230-14089 OD5PL
1239-21085 CN8LI
1240- 7033 B4TB
1241-21084 EA8/DJ1OJ
1304-21081 ZC4LI
1305-21095 4Z8EE
1334- 7038 VR2XLN
1335-21079 9M2/G4ZFE
1246-21085 HR2/LU1DY
1347-21090 V31GW
1406-14108 9M2/G4ZFE
1408-14085 HS1PDY
1427- 7037 EU6PW
1457- 7027 UN7PBY
1515-21084 NP4BM
1525-21101 8P2K
1529-28474 5H9KR
1547-14092 A71EM
1741-14089 CN8KD
1807-28085 L20H
1827-28088 FM5JC
1945- 3587 VK6HD
1946- 7044 CN8KD
1947- 7043 5B4AGN
1953- 7031 ZC4LI
2013-21093 HR1RMG
2028- 3582 YL7A
2048-21080 KH6GMP
2114-28083 ZL2AMI
2228- 7027 UN6G
2357- 7050 8P2K

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Sunday 23
0007-21086 WH7N
0015-21085 BX4AF
0033-14081 KH6GMP
0040- 3576 4K6DI
0116- 7033 EA8/DJ1OJ
0134-14088 VR2BG
0251-28090 VR2BG
0307- 3588 CM2ZK
0308- 7046 V31GW
0313-14080 UN7GCE
0314- 3598 Z31MM
0407- 7047 A71EM
0546-14092 A71EM
0605-21086 HS1PDY
0606-14096 RU2FL
0636-21086 B4TB
0655-21087 4Z4TL
0726-14077 ZC4LI

0738-21084 XU7ABN
0741- 7033 ZL2AMI
0806-14092 A71EM
0810-21084 ZS6PVT
0824-14074 ZL4AD
0842-21101 VR2BG
0849-21082 YB2EMK
0859- 7035 ZA/IK0OKY
0900-21086 OD5PL
0908- 7037 DS5JR
0913-21090 EA8/DL3KVR
0917-21099 EA8/DJ1OJ
0919-21090 YB5BO
0930-28091 CN8KD
0947-21098 YC3MM
1002- 7038 HR1RMG
1007-21073 9M2/G4ZFE
1008-21101 CN8KD
1100-28084 4X6UU
1101-21094 8P2K
1121- 7048 KP4JRS
1422-18106 VU2AVG
1530-18103 ST2PN
1819- 7037 HZ1IK
2058-14082 TG9SM
2055-10142 EA8/DL3KVR

Monday 24
0919-21081 XX9TVR
0944-14085 UN7EG
1312-21080 HZ1IK via DK7YY
1523-14088 5Z4DZ via PC1A
1554-14085 XU7ABN
1603-14083 3B9FR
1621- 7037 HZ1IK
2054- 7037 LX1RQ
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Tuesday 25
0043-21083 XX9TVR via VR2KW
0254-14081 XX9BB
1457-14082 HZ1IK
1525-14086 VQ9LA
1625- 7038 HZ1IK

Wednesday 26
1149-21081 XU7ABN
1217-21087 3B9FR
1547- 7033 XX9BB
1554-14085 3B9FR

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Thursday 27
1418-21083 J20FH via F5PRU
1455-14084 TF3GC
1746- 7038 3Z8IARU
2153- 7040 VK6HD
2341- 7038 HZ1IK

Notes of Interest:

Mariana Islands, KH0 - JH7IMX reports he will be active Jan 28-31 and will take care in the UK DX RTTY Contest. QSL via home call.

Reunion Island, FR - Look for F5TNI from Feb 2-22 as FR/F5TNI. Also as also as 3B8/F5TNI for one week. QSL via home call.

Rotuma, 3D2 - 3D2RR will be activated by HA9RE - HA8IB Jan 22 to Feb 26. QSL via 3D2RE.

Somalia, 6O - By I2YSB IK1PMR IK2DIA IK2GNW IK2WXV IZ5BRW as 6O0G 6O0CW from Feb 3-17. QSL via M5AAV.

South Cook Island, ZK1 - Look for SM6WET as ZK1WET from Jan 31 to Feb 17. Details at www.zk1sde.inkinkink.net/.

The VK2SG RTTY DX NOTES are distributed every week via the Winlink network, and are also available on the Internet at URL mailman.qth.net/pipermail/vk2sg-rtty/ and the digital-dx reflector. To subscribe to the digital-dx reflector, send an e-mail message to majordomo at mla.nifty.ne.jp as follows:
Subject:(blank) Message
Body: subscribe digital-dx

For next weeks bulletin send your bandpass and notes of interest to Phil, GU0SUP at pcooper at guernsey.net

GL with RTTY DXing Don AA5AU

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The Ohio/Penn DX Bulletin No. 695 -- excerpts

3D2/R, ROTUMA ISLAND (Also Fiji)
By the time you read this, Eli/HA9RE and Charlie/HA8IB have left Budapest and they are expected to be active as 3D2RE/R from Rotuma Island (OC-060) Jan 26 thru Feb 22. Activity will be on all bands 160-10 meters on CW/SSB/RTTY. They plan to have two stations on the air. They also plan to participate in the CQ WW 160 Meter CW Contest and ARRL DX CW Contest. On their return trip, look for them to be active from Fiji (OC-016) for a few days as 3D2RE, starting on Feb 23. QSL direct only via HA8IB. No Bureau QSLs.

6O0, SOMALIA (Update)
Silvano I2YSB updates OPDX and its readers on the upcoming Feb 3-17 DXpedition to Somalia. The tentative transmitting frequencies for 6O0CW (CW and RTTY) and 6O0G (SSB) are as follows

CW	1820	3505	7005	10115	14055	18095	21055	24910	28055	50100
SSB	1840	3790	7050	14210	18140	21270	24960	28450	50110	
RTTY	3560	7035	10130	14079	18120	21080	24935	28080		

CARIBBEAN OPERATION (V2 and VP2M)
Operators Larry/W1LR and Bill/W4WX, members of the Florida DXPedition Group Inc, will operate from Antigua as V25LR and V25WX respectively from Feb 21-24. They will then travel to Montserrat on the 24th and operate from the Volcano Island, Feb 24thru Mar 2 using the callsigns VP2MHS (W1LR) and VP2MHX (W4WX). The activity will primarily be on PSK-31 and RTTY on

20/17/15/12/10/6 meters. QSL direct only to their home callsigns.

CY9, ST. PAUL ISLAND
There is a summer CY9 operation planned for 2005. The CY9SS DXpedition is scheduled to take place between Jun 7 and Jul 7. The list of operators include Robert/VY2RO Grant/W1AIM Jim/VE9WH William/VY2LI Justin/K9MU Robert/VY2SS Doug/VE1PZ Glenn/VE9GJ Lowell/VY2OX Steve/VE2TKH and Dave/VA2DV. The team is planning activity for the following
2m weak signal SSB/CW/WSJT-M/S-EME, 2 HF stations, 6m station on Europe 24/7 6m station NA/SA The CY9SS Web site is available online at www.cy9ss.comhttp://www.cy9ss.com

J6, ST. LUCIA
Dave K3LP will be active from here Feb 15-22. Look for him to sign J6R in the ARRL DX CW Contest as a Single-Op/Low-Power entry. For activity before and after the contest, he will sign J6/K3LP. QSL both callsign via K3LP.

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P4, ARUBA
John W2GD will be here Feb 23 thru Mar 8. Look for him to be active as P40W in the CQ WW 160m SSB Contest as Single-Op/High-Power entry. He will also be active in the ARRL DX SSB Contest (Mar5-6) as Single-Op/ High-Power entry. Activity before and after both contests will be on CW and the WARC bands. QSL via N2MM.

PJ2, NETHERLANDS ANTILLES
Operators Jerry/WB9Z Tom/AE9B Martin/NW0L Jeff/K8ND and Geoff/W0CG will be active as PJ2T from Curacao in the ARRL DX SSB Contest (Mar 5-6) as a Multi-2 entry. QSL via N9AG.

VK0M, MACQUARIE ISLAND
Dave VK0MT (VK3KR) was heard this past week mainly on 20 meters SSB. Watch 14205 and 14245 kHz between 0630-1330z. Also watch 40 meters (7085 kHz) between 1100-1130z. QSL via JE1LET.

XV3, VIETNAM (Also Taiwan)
Operators JA9BV and JA3DYU will be vacationing in Vietnam and Taiwan during middle Mar. Look for them to be active as XV3BV and XV3DYU from the ancient town of Hoi An Mar 14-17. The two operators will leave from Saigon to Taipei Taiwan, on Mar 18 and will operate as BW2/JA9BV and BX2/JA3DYU until the 23rd. Activity will be on mostly SSB and CW.
Suggested frequencies are
 CW 3515 7014 14040 21040
SSB 3540 7040 14160 21160
QSL via the bureau or direct to their home callsigns.

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The Society can be contacted in the following ways
To Pat VK2JPA via vk2jpa at wia.org.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer

NNNN